

COMPOSITE RESIN SYSTEMS AND HIGH PERFORMANCE ADHESIVES



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FINE FINISH INDUSTRIES PVT. LTD.

(Formerly known as Fine Finish Organics Private Limited)

Excellence in Innovation

Sr.No	Product Description	Resin	Hardener	Accelerator	Mixing Ratio	Curing Cycle	Viscosity	Tensile Properties	Tg	Special Features	Application
COMPOSITE RESIN SYSTEMS											
1	Epoxy Resin System for High Performance Laminates	Epofine 556	Finehard 5200	-	100 : 24	120°C/ 2h + 160°C/ 6h	800 - 1000 mPas at 40°C	70 - 80 MPa	145 - 155°C	High Glass Transition Temperature, Low Mix Viscosity, High Mechanical Strength, Long Pot life	Industrial composites, Aerospace industry, CNG cylinders
2	Epoxy Resin System for High Performance Laminates	Epofine 179	Finehard 906	Accelerator 070	100 : 115 : 1	100°C/ 2 h + 160°C/ 6 h	300 - 400 mPas at 25°C	50-60 MPa	180 - 200°C	High Electrical Resistivity, Very Low Co-efficient of thermal expansion	Composites for electrical application, FRP Composite rods, Composites for High voltage applications
3	Epoxy Resin System for High Performance Laminates	Epofine 179-1	Finehard 906-1	-	100 : 150	150°C/ 2 h + 180°C/ 2 h + 200°C/ 2h	300- 400 mPas at 25°C	60- 75 MPa	230 - 240°C	Very Low Co-efficient of thermal expansion, High Glass Transition Temperature	Composites for electrical application, FRP Composite rods, Composites for High voltage applications
4	Epoxy Resin System for High Performance Laminates	Epofine 556	Finehard 22962	-	100 : 23	120°C/ 30 min + 150°C/ 2h	800- 1000 mPas at 25°C	65- 75 MPa	130 - 140sC	Low mix viscosity, Tolerant mixing ratio, High tensile strength	Industrial & Structural composites made with Infusion
5	Epoxy Resin System for High Performance Laminates	Epofine 564	Finehard 2954	-	100 : 35	80°C/ 1h 270+ 160°C/ 4h	500 - 700 mPas at 25°C	75- 85 MPa	150 - 160°C	Low mix viscosity, Cycloaliphatic polyamine hardener, Excellent Hot- Wet Strength	Aerospace Composites
6	Epoxy Resin System for High Performance Laminates	Epofine 564	Finehard 2962	-	100 : 25	120°C/ 30 min + 150°C/ 2h	400 - 600 mPas	75- 85 MPa	120 - 130°C	Low mix viscosity- ideal for Infusion, Filament winding, Pultrusion; High Tg	Aerospace, Aircraft, Windmill Composites
7	Epoxy Resin System for High Performance Laminates	Epofine 720	Finehard 906	-	100 : 100	100°C/ 2h + 150°C/ 4 h + 160°C/ 8 h + 200°C/ 7h	1000 - 1200 mPas at 40°C	85- 95 MPa	220 - 230°C	High Glass Transition temperature, Very High Mechanical properties, Long Pot life	High Performance Aerospace Composites
8	Epoxy Resin System for High Performance Laminates	Epofine 1162	Finehard 22962	-	100 : 25	120°C/ 30 min + 150°C/ 2h	400 - 600 mPas at 25°C	80- 85 MPa	120 - 130°C	Outstanding dynamic performance, Transparent to RF & X-rays	Medical equipment
9	Epoxy Resin System for High Performance Laminates	Epofine 5052	Finehard 5052	-	100 : 38	80°C/ 10 h	500- 700 mPas at 25°C	> 40 MPa	110 - 120°C	Long pot life, Excellent Hot- wet strength, High Tg	Aerospace, Tooling and Aircraft Repairs
10	Epoxy Resin System for High Performance Laminates	Epofine 221	Finehard 964	Accelerator 070	100 : 100 : 1	80°C/ 1h + 140°C/ 2h	400- 600 mPas at 25°C	350- 375 MPa	70 - 80°C	Good crack resistance, Low operating temperature upto -80°C	Flexible castings, Proximity Switches
11	Epoxy Resin System for High Performance Laminates	Epofine 8008A80, Finecure 197, Finecure 190	Finehard 986	Accelerator 062	100 : 50 : 17 : 68 : 0.5	Prepreg @ 60°C - 80°C	2000 - 4000 mPas at 25°C	300- 500 MPa (FG Laminate)	130 - 140°C	B- Stageable Brominated Epoxy System for Flame Retardant Composites, 1yr shelf life of prepreg	Manufacturing of Flame Retardant (FR grade) glass/ carbon composites for Aerospace & Defence applications
12	Epoxy Resin System for High Performance Laminates	Fineset BX 3560	-	-	Can be cured with Epoxy Resins	180°C/ 2h + 200°C/ 4h	300 - 600 mPas at 100°C	55- 65 MPa	180 - 200°C	Long pot life of prepreg, Flexible mix ratios with Epoxy Resin, High Tg (>200°C)	Suitable for Filament winding, producing large aerospace parts
13	Epoxy Resin System for High Performance Laminates	Epofine 8615	Finehard 8615	-	100 : 50	25- 30°C/ 24h + 120°C/ 6h + 200°C/ 6h	1000 - 1500 mPas at 25°C	60 - 70 MPa	200 - 210°C	Extremely Low Shrinkage, Excellent Hot- Wet Strength, Tg > 200°C	Suitable for Filament winding, Wet lay- up, Vacuum Infusion, Resin Transfer Moulding for Large Industrial and Aerospace Parts
14	Hot Curing Matrix System for Composites	Epofine 9513M	Finehard 3486-1	-	100 : 30	RT/ 24h + 80°C/ 16h	200 - 300 mPas at 25°C	60 - 70 MPa	60 - 70°C	Fast Curing Hardener, Low Mix Viscosity, Excellent Impact Resistance	Composite Windmill Blades
15	Warm Curing Matrix System for Composites	Epofine 1564	Finehard 3486	-	100 : 34	RT/ 24h + 80°C/ 24h	200 - 300 mPas at 25°C	70- 80 MPa	60 - 70°C	Long Pot Life, Low Mix Viscosity, Excellent Impact Strength	Composite Windmill Blades
16	Warm Curing Matrix System for Composites	Epofine 1564	Finehard 3486 : Finehard 3487	-	100 : 34 (both hardeners)	RT/ 24h 270+ 80°C/ 24h	200 - 300 mPas at 25°C	70- 80 MPa	60 - 70°C	Adjustable pot life by varying hardener ratios, Low Mix Viscosity	Infusion of Composite Windmill Blades
17	Prepregging Epoxy Resin System- Long Pot Life	Epofine 6071A80/ Finecure 197/ Finecure 190	Finehard 986	Accelerator 062	100 : 50 : 17 : 68 : 0.5	Prepreg @ 80°C - 90°C	2000 - 4000 mPas	400 - 500 Mpa (FG laminate)	130 - 140°C	Low Surface Tension, Low Curing Temperatures, Excellent Mechanical Properties under Dynamic Conditions @150°C	G 10 Laminates
18	Epoxy Resin System for Pultruded Composites	Epofine 556	Finehard 917	Accelerator 070	100 : 85 : 3	80°C/ 4h + 160°C/ 4h	800 - 1000 mPas at 40°C	60 - 70 MPa	150 - 155°C	High Glass Transition Temperature, Low Mix Viscosity, High Mechanical Strength, Long Latency System	FRP Composite rods for Electrical Switchgears, Industrial composites
19	Epoxy Resin system for Filament Winding	Epofine 740	Finehard 918	Accelerator 062	100 : 85 : 1	80°C/ 4 h + 140°C/ 8 h	600 - 900 mPas at 25°C	75- 85 MPa	130 - 135°C	High Electrical Resistivity, Excellent Water Resistance	Composites for electrical application, FRP Composite rods, Composites for High voltage applications
20	High Temperature Matrix System for Composites	Epofine 8615	Finehard 5173	-	100:38	80°C/ 2h + 150°C/ 1h + 180°C/ 3h	300-400 mPas @ 25°C	>60 MPa	205-215°C	High Tg, moderate cure speed	High temperature operating composite products
Sr.No	Product Description	Resin	Hardener	Accelerator	Mixing Ratio	Curing Cycle	Viscosity	LSS	Special Features		Application
ADHESIVES											
1	General purpose Adhesive	Epofine 103	Finehard 951	-	100 : 10	RT/ 16h + 80°C/ 80h	800 - 1200 mPas	> 10 N/mm2	Low mix viscosity, Tolerant mixing ratio		Suitable for Wide Variety of metals, Ceramics, Plastics, Composites
2	Epoxy Adhesive System	Epofine 138	Finehard 998	-	100 : 40	RT/ 24h or 60°C/ 1h	Thixotropic paste	13 - 15 N/mm2	Excellent Electrical Insulation Properties up to 120oC		Adhesives for electrical joints
3	Electrical grade Epoxy Adhesive System	Epofine 105	Finehard 991	-	100 : 50	40°C/ 16h	Medium Viscous	1.3 - 1.5 N/mm2	Good Performance upto @100°C under dynamic conditions		Adhesives for Windmill Generators
4	Epoxy Adhesive System	Epofine 4734	Finehard 4735	-	100 : 34	70°C/ 4h	Thixotropic paste	~30 N/mm2	Fast Curing, Excellent Resistance to Flow		Adhesive for Assembly of Windmill Blades
5	Brake Bonding Adhesive	Fineset AE 936	-	-	-	150°C/ 30 min or 165°C/ 15 min or 200°C/ 5 min	Thixotropic paste	7.5 N/mm2 @ RT; 7 N/mm2 @ 200°C	Single Component, Excellent Heat Resistance up to 200°C		Brake Bonding Adhesive, High Performance Chemical Resistant Adhesive Systems
6	General purpose Adhesive	Epofine 27	Finehard 28	-	100 : 40	40°C/ 16h	Thixotropic paste	13 - 15 N/mm2	Room Temperature Cure Adhesive		Adhesives for electrical Applications
6	High Strength Toughened Epoxy Adhesive System	Epofine 4859	Finehard 4859	-	100 : 43	40°C/ 16h	Thixotropic paste	23 - 25 N/mm2	High Strength Toughened Adhesive System, Good Performance upto 140°C		Toughened Adhesive for Structural applications, Composite Pipe Bonding Adhesive
7	Hot Melt Adhesive	Fineset 5119	-	-	-	Melts @115°C	Thixotropic paste	-	Single component, Thermoplastic, Odorless, Good resistance to dynamic loading		Ideal for Bonding Industrial assemblies in Telecommunications & Automobile industry, Excellent for joining metal to metal, FRP Composites etc
8	Single Component Epoxy Balancing Compound	Fineset 2119	-	-	-	120- 150°C/ 30 min	Thixotropic paste	8- 10 N/mm2	Continuous operation from -40°C to +155°C		High Strength Epoxy Cement, Balancing of Armatures, Bonding of FRP Composites
9	Toughened Epoxy Adhesive for Honeycomb Structures	Fineset 9303/ A	Fineset 9303/ B	-	100 : 25	80°C/ 1-2 h	20,000 - 40,000 mPas	Substrate failure	Low curing temperatures, Negligible Shrinkage, Excellent Flexibility & Fatigue resistance		Adhesive for bonding Composite Components- Metal skins to Honeycomb cores
10	Single Component Polyurethane Adhesive	Fineset PU 100	-	-	-	RT/ 30 min	Viscous liquid	10 - 12 N/mm2	Continuous operating temperature from -60°C to +85°C		Construction Adhesive, Heat Insulating Panels for Cold Storage Room, Waterproofing of Terrace/ Walls, Bonds well with concrete
11	High Performance Epoxy Encapsulant	Fineset FE 927FLV/ A	Fineset FE 927FLV/ B	-	100 : 10	25°C/ 6 h OR 80°C/ 2h	6000- 12000 mPas at 25oC	50- 60 MPa (Flexural Strength)	Very Low Shrinkage, Excellent adhesion to organic & inorganic material, Excellent thermal conductivity		Bonding variety of mechanical components and electrical equipment